

# **IDENTIFICATION OF BIOLOGICAL (MICRO)ORGANISMS BY DETECTION OF THEIR HOMOLOGOUS NUCLEOTIDE SEQUENCES ON ARRAYS**

## Abstract of the Disclosure

A method for identifying or quantifying an organism by a detecting its nucleotide sequence among at least 4 other homologous sequences comprising amplifying nucleic acids from the organism to generate target nucleotide sequences to be detected; contacting the target nucleotide sequences with single stranded capture nucleotide sequences bound by a single predetermined link to an insoluble solid support and discriminating the binding of a target nucleotide sequence specific of an organism with a signal resulting from a hybridization by complementary base pairing between the target nucleotide sequence and its corresponding capture nucleotide sequence is disclosed. The capture nucleotide sequence is bound to the insoluble solid support at a specific location on an array having a density of at least 4 different bound single stranded capture nucleotide sequences/cm<sup>2</sup>. The location of the signal on the array allows identification or quantification of the organism.

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